Approved For Release 2000/09/1 (13 0 9

A- POSTFLIGHT INSPECTION

(MATTRIES) - 190cl.56

U-2

This inspection is basically a combination of requirements for checking equipment that requires daily or frequent verification of satisfactory functioning; plus requirements that prescribe searching for defects that become apparent after the aircraft is flown. It is intended that evidence of chafing, leaks, and similar conditions be discovered and corrected during the Postflight Inspection to preclude progression of such a relatively minor problem to a state that would require major maintenance to remedy the deficiency. The Postflight Inspection is, therefore, an important function that should be performed with care.

The intervals at which the Postflight Inspection will be accomplished are contained in applicable aircraft inspection systems directives.

ELECTRICAL POWER OFF

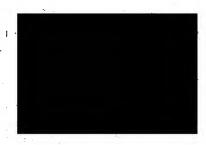
PREPARATION:

- 1. Fire extinguisher provided.
- 2. Landing gear downlock pins installed.
- 3. Wheels chocked.
- 4. Auxiliary static ground installed.
- 5. Dive flaps closed shutoff valve "OFF."
- 6. DD Form 781 for discrepancies.
- 7. Switches "OFF."
- 8. Necessary fairing, panels and access doors removed or opened; closed or reinstalled upon completion of the inspection.
 - 9. Dust excluder plugs and wing, empennage, canopy and pitot covers installed upon completion of the inspection.

ATRFRAME (SYSTEM NO. 3)

- 1. Aircraft for cleanliness.
- 2. Wings, fuselage, empennage and control surfaces for damage; drain holes for obstruction.
 - 3. Statis ground wire for security and positive contact with ground.
 - 4. Fairings, panels, and doors for damage and insecurity.
 - 5. Battery area for evidence of leakage or overflow of electrolyte.
- 6. Dive brakes track for cleanliness; flaps, tracks, and linkage for damage and insecurity; actuators, lines hoses, and connections for insecurity and evidence of leakage; lines and hoses for chatting and damage.

25X1A



Enc]Approved For Release 2909/09/84 1CIA-RDR89B00551R000100060013-0

Approved For Release 2000/09/14 : CIAFOP 89B00551R000100060013-0

- 7. Windshield and canopy for cleanliness, distortion, nicks, crazing, cracks, and scratches.
 - 8. All required Postflight entries made in applicable forms.
 - 9. Shoulder harnesses and safety belts for cleanliness.

LANDING GEAR (SYSTEM NO. 4)

- 1. Landing gear and wheels for damage and free of mud, grass and ice.
- 2. Shock struts for evidence of leakage; polished surfaces of shock struts and hydraulic pistons cleaned with cloth moistened in hydraulic fluid.
 - 3. Microswitches for cleanliness, damage, and insecurity.
- 4. Doors and actuating mechanism for damage, insecurity and evidence of improper adjustment.
 - .5. Wheels for evidence of overheating in area adjacent to brakes.
- 6. Tires for uneven wear, cuts or blisters; free of grease or oil; slippage marks for misalignment.
- 7. Accessible brake lines, hoses, connections and components for leakage with parking brakes "SET".
- 8. Accessible components, lines, hoses and connections for insecurity and evidence of leakage; lines and hoses for chaging and damage.
- 9. Brake system reservoir for required fluid level; filler plug for security.

HYDRAULIC PNEUMATIC (SYSTEM NO. 5)

1. Accessible components, lines, hoses, and connections evidence of leakage; lines and hoses for chafing and damage.

UTILITY (SYSTEM NO. 6)

- 1. Oxygen System and Components:
 - a. Recharge to 1850 psi.
- b. Regulator for steady flow by turning the pressure control knob about 90 degrees clockwise.
- c. Regulator system for leakage by ensuring that there is no audible escape of oxygen with diluter in "100% OXYGEN".
- d. Regulator diaphragn and mask-to-regulator tubing for leakage when a slight pressure is applied at the open end of the mask-to-regulator tube by blowing gently with diluter lever set at "100% OXYGEN"; set regulator diluter at "NORMAL OXYGEN" upon completion of tests.
 - e. Hose from regulators for tears, holes, kinks and insecurity.

T TON INCOMMITTE ON

25X1A

Enclosure No. 4 to SOP-0-1 Page 2 Approved For Release 2000/09/14: CIA-ROPESB00551R000100060013-0

Approved For Release 2000/09/14 : CIA TOP ROBDO 551R000100060013-0

- f. Knurled coller and hose on regulator outlet elbows properly, tightened (point to suit user's convenience).
- g. Flow indicators for operation. (With regulator set at "100% OXYGEN", blinker should move freely with each normal breath from mask-to-regulator tubing).

POWER PLANT (SYSTEM NO. 7)

- 1. Exhaust cone for soot swirls and heat streaks indicating faulty fuel nozzles. (If found, inspect inner liners, nozzles and domes).
 - 2. Turbine wheel for broken buckets.
 - 3. Buckets for nicks and dents behand specified tolerance.
 - 4. Nozzle diaphragn blades for damage.
- 5. Engine for evidence of leakage; loose or missing nuts, bolts, studs, or clamps; proper safetying where required.
 - 6. Diaphragm and air seal assemblies for cracks and insecurity.

FUEL (SYSTEM NO. 8)

- 1. Exterior of aircraft for evidence of leakage.
- 2. Tanks serviced; tank filler necks and cap seals for damage or excessive wear; caps for proper seating.

OIL (SYSTEM NO. 9)

- 1. Engine reservoir for required servicing; filler cap for security.
- 2. Exterior of fuselage for evidence of leakage.
- 3. System components, lines, and hoses for damage; lines and hoses for chafing.

AIR INDUCTION AND EXHAUST (SYSTEM NO. 11)

- 1. Air intake ducts for damage and foreign material.
- 2. Tailpipe for cracks and distortion beyond permissible limits; tailpipe clamp and blankets for damage and insecurity.

ELECTRICAL (SYSTEM NO. 14)

1. Spare lamps and fuses available in holders.

INSTRUMENTS (SYSTEM NO, 15)

- 1, Pitot head and static plates for damage and insecurity.
- 2. Instruments, panels and brackets for damage and insecurity.

Enclosure No. 1. To SOP-0-1 Page 14: CIA-RDP89B00551R000100060013-0



25X1A

Approved For Release 2000/09/14 : CIA-RDP89B0055TR000100060013-0

- 3. Instrument cover glasses for cleanliness, cracks, and looseness; range, slippage and limit markings intact.
 - 4. Standby compasses for discoloration of fluid and evidence of bubbles.
 - 5. Thermocouple leads for damage and insecurity.

R & R (SYSTEM NO. 16)

- 1. Visually inspect the following items;
- a. Antenna lead-in for damaged insulators, proper spacing from surrounding objects, and insecurity of connections.
 - b. Plugs for proper insertion in jacks and receptacles.
 - c. Junction boxes and covers for damage.
- d. Headset and microphone cordage and plugs for damage and proper stowage.

REMARKS:

25X1A

SIGNATURE

. Approved For Release 2000/09/14 : CHA-RDF 59B00351R000100060013-0

B-PREFLIGHT INSPECTION

ARTICLE NO. 353

DATE 20 047 56

NOSE SECTION: 1. Plastic nose & windows free of cracks & secure.	MECH. INSP.
- 1235 to hope & windows free of cracks & secure,	
2. ARN/6 boot for condition & closed, ARN/6 and compass secur	
3. Brake fluid for proper level & cap secure.	
4. Cabin pressure test fitting secure	
5. Pitct clean & secure, check AIRSPEED.	
6. Nose section clean & OK to close panel.	
7. Access panel installed,	
8. All items cleared. CREW CHIEF:	
COCKPIT EXTERNAL:	
1. Static holen all open.	
2. Canopy external handle secure.	
3. Lower antenna secure.	
4. Windshield & canapy glass cleanliness & condition.	
5. All items cleared. CREW CHIEF:	
1. Canopy antenna connection secure.	
2. Canopy emergency release handle locked & safetied (020 copp	
3. Canopy for proper latching with aft hatch installed.	
4. Canopy seal & connection for condition.	
5. Brakes for solid feel.	
6. Rudder pedals for freedom & operation of adjustment.	
7. Elevator for operation & freedom.	
8. Aileron for operation & freedom,	
9. Elevator tab for operation & direction. Set to neutral.	
10. Aileron tab for operation & direction. Set to neutral.	
Il. Throttle for operation & friction lock.	
12 U.H.F.	
Approved For Release 2000/09/14: CIA-RDP89B00551R00010006001:	

Approved For Release 2000/09/14 : CIA RDH 39-10035/12000100060013-0

COCKPIT INTERNAL: (Continued)	MECH.	INS
13. Alchehol & rag in man case.		
14. Instruments for condition & cleanliness.		
15. Circuit breakers set or into white line.		
16, Seat belt & shoulder straps for condition & operation.		
17. Orygen system checked out. System pressure 1800 to 2000#		
cap installed, check out face heat.		
18, Warning lights for operation.		
19. Emergency battery for operation, check voltage with precis		
20. Seat for condition & operation.		
21. Interior lights for operation & security.		
22, Cockpit floor cleaned.		
23. All items cleared. CREW CHIEF:		
EQUIPMENT BAY:		
1. Peacan drained, flushed & valve closed.		
2. Cockpit regulators for cleanliness & condition.		
3. Control cables for freedom, operation & turnbarrels safet		
4. Equipment for security in hatch & bay.		
5. Lower hatch & seal for operation & condition of latching		
6, OK to install lower hatch.		
7. Lower hatch installed, latched and safetied.		
8. Check HF radio equipment for security.		
9. Upper hatch latching mechanism for operations.		
10 Pressure regulator safetied in flight position.		
11. OK to install upper hatch.		
12. Upper hatch installed, latched & safetied.		
. 13 All items cleared. CREW CHIEF:		
UPPER CROTCH BAY:		
1. Heat exchanger duct connections for security.		
2. Check for plumbing or anything riding structure,		
3. OK to close access door.		
4. Access door closed & secure.		
5. All items cleared. CREW CHIEF:		
Approved For Release 2000/09/14: CIA-RDP89B00551R00010006001		

Approved For Release 2000/09 A CONFIDENTIAL 551R000100000013-0

ENGINE AIR DUCTS
1. R/H & L/H main ducts for cracks & cleanliness,
2. R/H oil cooler duct for cracks & cleanliness. Check inlet guide vanes, compressor rotor & stator blades anicks or other evidence that the engine has ingested foreign.
4. Run up screens removed.
.5. All items cleared. CREW CHIEF:
WING:
1. R/H wing for condition & cover plates secured.
2. R/H aileron & tab for security & condition.
3. R/H flap for security & condition.
4. R/H fuel caps secured.
5. R/H wing fillets for conditions & security.
6. R/H pogo installed & latched.
7. L/H wing for condition & cover plates secured.
8. L/H aileron & tab for security & condition,
9. L/H flap for security & condition.
10. L/H fuel caps secured.
11. L/H wing fillets for condition & security,
12. L/H pogo installed & latched.
13. L/H & R/H outboard fuel drain valves checked for water.
14. All items cleared. CREW CHIEF:
FUSEIAGE
l. External skin for condition.
2, Ejector for condition.
3, Dive flap (speed brakes) for condition & hydro leaks.
4. Engine mounts & tail pipe for security.
5. All cover plates secured on top of fuselage, lail pipe & turbine for cracks or evidence of foreign mater
6, passing through turbine,
7a All items cleared CREW CHIEF:
Indumage:
Starlizer for condition.
2. Elevator & tab for condition & security.
Inclosure No. 4 to SOP-0-1, Page 7
Approved For Release 2000/09/04/15/15/25/15/29/200551R000100060013

Approved For Release 2000/09**10 NCIA RUPS 8**800551R000100060013-

FAPHI	Approved For Release 2000/09/14. C/A-RDP89B00551R0001000600 MCE: (Continued)
2	Elevator tab for servesction.
24.	Vertical stabilizer for condition.
5.	Vent line open.
6.	Rudder for security & condition.
7.	Fillets for security & condition.
8.	All items cleared; CREW CHIEF:
TAIL	GEAR:
1	Doors for security,
2.	Tires for condition.
3,	Steering cables & brackets for condition & security.
4.	Strut for condition & cleanliness, proper pressure is 33 extended or 3.75 inches compressed.
5.	Micro switch for security & condition,
6.	All items cleared, CREW CHIEF:
MATN	GEAR & WELL
11.	Door for security & condition.
2.	Control cables for condition, turnbarrels safetied.
3.	Uplock release cable & spring secure.
L.	Retract mechanism & cyl. for condition,
5.	Strut for condition, proper pressure or height & cleanli Pressure 180 psi extended or 4.5 inches compressed.
6.	Brakes for clearance & freedom of leaks.
7.	Tires for condition & pressure, 240 lbs.
8.	All items cleared. CREW CHIEF:
ENGI	NE COMPARTMENT:
Partie Co	Throttle for security & safety.
2.	Main & aux, fuel tank transfer valves open & safetied,
_3。	Manual fuel shut off open & safetied,
40	Main fuel strainer drained or checked for water.
_5a	Check accumulator pressure, 800 psi.
6.	Hydro Oil tank full.
7.	Electrical plugs secure & safetied.
8.	Fuel & oil lines secure & free of leaks.
26	Dive flap shut off valve safetied open.
	t ago of Design
	Approved For Release 2000/0944 Clark # 3950551R0001000600
in Jan	

E	NGINE COMPARTMENT:		MECH, INSP.	
1	O. Engine side plates installed.			
<u>1</u>	l. OK to install aft lower engine cov	ver & drain lines,		
1	2. All items cleared.	CREW CHIEF;		
F	INAL SIGN OFF:			
-	l. Install lower enginé cover fwd. se	ections		
-	2. Remove pitot airspeed cover.			
-	3. Remove main & tail gear down lock	pins,		
-	4. Install scissors pin in tail gear,	R _p , and a specific property of the specific		
	5. Fuel load /035 Fuel added 8	0il added C	Oil level	
	0xygen/900			
: م	6. Ship released for flight	Date / Ball	56 Time 08/00	-
A	IRCRAFT GENERAL:	er der der der der der der der der der d	r value kantal (July distribus mentematikan paga manga distribus distribus 1 July 1979 9790 9790 1 Ad 1977 A	k. 403044
Januari	l. Elect and radio pre flight,			
laten	2. Install and check special equipmen	nt.		
	3, Check Destr, circuit.	noprospin a security construction of the security of the security of		
ب رملد	$l_{ m t_{ m c}}$ Install and connect destr.			
	5 Install upper hatch.			
	6. Pilot enter cockpit.			
	7. Pilot check cockpit,			
	8. Start MA-2 on signal from pilot.	A service of the serv		
-	9. Start engine.			
10	O. Disconnect MA-2.	- Andrew Company of the Company of Artifaction Company of Company of Company of Company		
	l. Close canopy.	an Sandardy - Angelon-Turn-male . A State State of property of special property by the property of the propert		
-	2. Pull gear pins.	A Company of the American Company of the Company of		
	The Colonial County of the Control of the Colonial Coloni	material for the state of the s		
1	3. Pull chocks.	·		
1	3. Pull chocks. 4. Chrew Chief signal all OK on outsi	ide for take-of.		
1		ide for take-of.		

Approved For Release 2000/09/14 : CIA-RDP89B00551R0

AFTER LANDING:		100				
1. Install Pogo's. 2. Tow aircraft to hans				X X X Y		
3. Check with pilot to entered on 781-2.	assure al	1 discre	pancies ha	ve been		
4. Correct discrepanci	es.	di.	X			
5. All items cleared.	Re.		REW CHIEF		**	a.
		TIMES TAILS IN	IMI DATA			25
and the second	<i></i>	ENGINE R		253	OPERATI	
DATE 1900756 TE		1215/11		A STATE OF THE STA	SWART	
IV sh 4 L L V sh	ART		START			
STOP 06:25 ST	OP		STOP		STOP	
		. T		•		
RPM Idle 58 50 55 5 5 Max. 91-95	50%					
JET TEMP. Idle 200-300	2900					
Max. 500-580 FUEL PRESS. Idle 15-20						
Max _o 8-12						
START/ TOTALIZER	206					
END TOTALIZER	172					
ELAPSED TIME	:15					
LOADMETER .05-15	,05					
HYDRO. PRESS. 2000-3100	3000	0 179				
paragraph (A) Tomas (A)	40	-				
OIL PRESS, 40-50	Million of the same			*		
Max, 0-80	ter skirana					
ENGINE COMP, TEMP.	a.c.company.	1			×	
AFT FUEL. TEMP.	1					
1,2-1,6 Max, 2,2-2,5	1.2.	1			2	
1.2-1.6 Max. 2.2-2.5	OK	ù Y	ان الاستان العربي التي			
es the	OK					
	OK					

Enclosure No. 4 to SOP-0-1, Page 10